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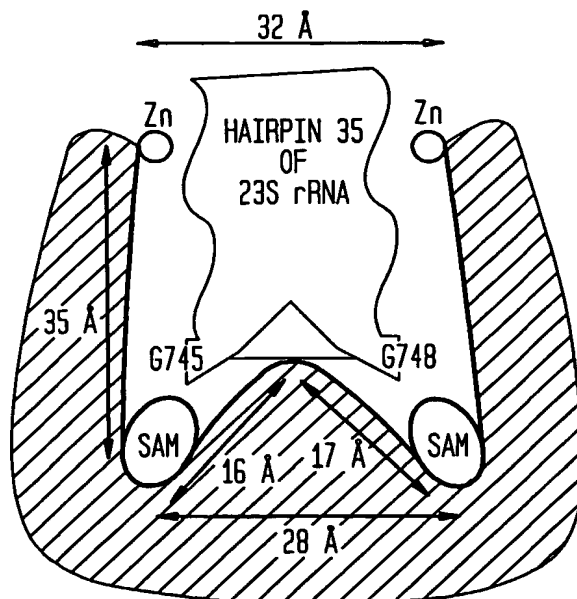
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(54) Title: RIBOSOMAL RNA METHYLTRANSFERASES R1mA: TARGET VALIDATION AND PROCESSES FOR DEVELOPING AN INHIBITOR ASSAY AND IDENTIFICATION CANDIDATE INHIBITORS



(57) Abstract: The invention provides a target and methods for specific binding and inhibition of R1mA proteins from bacterial specie The invention is directed to a method for identifying compounds that bind to a bacterial R1mA-binding pocket, comprising preparing a reaction solution comprising the compound to tested and an entity comprising a bacterial R1mA-binding pocket and detecting presence or amount of binding. The invention has applications in control of bacterial gene expression, control bacterial growth, antibacterial chemistry, and antibacterial therapy.